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Amendment

(Amendment under Article 11 of the Law)

To: Examiner of Patent Office

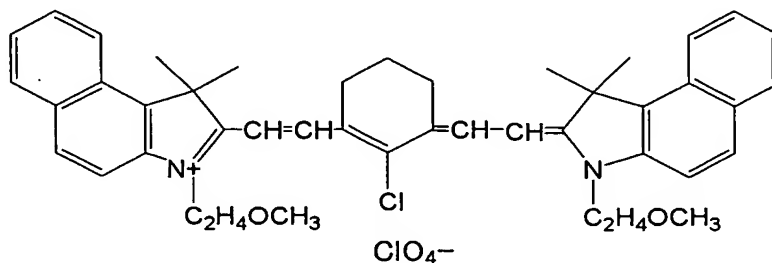
1. Indication of International Application: PCT/JP2003/009938
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4. Subject of amendment:
 - Description
5. Contents of amendment:
 - (1) Amend the chemical formula on page 23 of the description, as per attached.
6. List of attached documents:
 - (1) Page 23 (English "Pages (21 & 22) covering Art. 34 PCT amendment" are attached)

tetrafluoroborate. The following compound thus obtained had the following physical properties.

Maximum absorption wavelength: 820 nm (in methanol)

Molar extinction coefficient: 270,000 (in methanol)

Decomposition temperature (perchlorate ion): 230°C (TG-DTA)



It is well known that chlorate and perchlorate ion forms are easily decomposed at a decomposition temperature. In the compound of the present invention, particularly a chlorate ion form has a remarkably low decomposition temperature. At that temperature, the weight decreased at once by 70% or more and radical decomposition was observed. In addition to dangers in compound production, these Comparative Examples are considered to have no advantage compared with other anions when heated and kneaded with a resin in producing the toner of the present invention.

Table 1 described below shows comparison in absorbance at 600, 650 and 700 nm in methanol of compounds of Examples 1 to 7 with Comparative Example Compounds 1 to 3.

Table 1 (comparison of spectral characteristics in 3 mg/L methanol solution)

600nm

650nm

700nm

Example 1	0.014	0.052	0.147
Example 2	0.014	0.051	0.144
Example 3	0.013	0.048	0.134
Example 4	0.012	0.048	0.136
Example 5	0.016	0.047	0.126
Example 6	0.014	0.045	0.119
Example 7	0.014	0.053	0.148
(hereinafter described with a ratio (%) to Example 1)			
Comparative			
Example 1	0.024	0.089	0.274
	(170%)	(170%)	(190%)
Comparative			
Example 2	0.018	0.071	0.199
	(130%)	(140%)	(140%)
Comparative			
Example 3	0.213	0.262	0.164
	(1520%)	(500%)	(120%)

The compound of the present invention is characterized by having a sharp absorption in the infrared region, a high extinction coefficient, and a high decomposition temperature.

Further, according to Table 1, the compounds of the present invention has an extremely low absorption compared with the Comparative Example Compounds in the visible region, in particular the visible region close to the near infrared region, 600 nm to 700 nm. This difference indicates that the compounds of the present invention has much lower absorption in the visible region than the compounds for comparison and exert very small impact to the color tones of color toners. In addition, since the indolenine compound of the present invention has a high molar extinction coefficient, a toner can be obtained which has excellent fixing in noncontact thermal fixing method such as flash fixing method.

手 続 補 正 書
(法第 1 1 条の規定による補正)



特許庁審査官 殿

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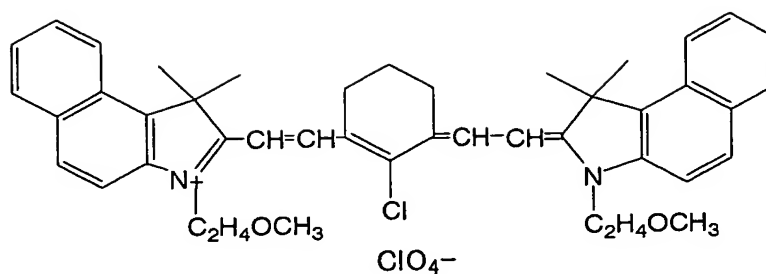
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4. 補正の対象 明細書

5. 補正の内容 (1) 明細書 2 3 頁の化学式を別紙のとおり補正する。

6. 添付書類の目録

(1) 明細書 2 3 頁



塩素酸、過塩素酸イオン体は分解温度で一挙に分解することが良く知られており、本発明の化合物においても、特に塩素酸体は分解温度が著しく低く、その分解温度で重量減少が一挙に70%以上、激しく分解した。化合物製造上の危険性もさることながら、本発明のトナー作製にあたり樹脂と加熱混練する場合にはその他のアニオンと比較した利点は残念ながら無いと考えられる。

下記に示す表1に実施例1～7に示した化合物のメタノール中での600、650、700nmにおける吸光値を比較例化合物1～3と比較した。

表1 (3mg/Lメタノール溶液中の分光特性の比較)

	600nm	650nm	700nm
実施例1	0.014	0.052	0.147
実施例2	0.014	0.051	0.144
実施例3	0.013	0.048	0.134
実施例4	0.012	0.048	0.136